



INDIAN SCHOOL DARSAIT

DEPARTMENT OF BIOLOGY



Subject : Biology

Topic : Morphology of
Flowering plants
Answer key

Date of Worksheet: 14-1-2018

Resource Person: Zehra Fatima

Date of submission: _____

Name of the Student : _____

Class & Division : XI B

Roll Number : ____

S.No.	Questions	Marks
1 .	Mention one stem modification with an example.	1
2.	In mangroves, pneumatophores are modified adventitious roots. How are those roots helpful to the plant?	1
3.	State the function of leaf tendrils.	1
4.	Which part of coconut is fibrous?	1
5.	Which part of Opuntia is modified to form spines?	1
6.	What is the difference in venation in monocot and dicot leaves?	1
7.	What is the name given to the mango?	1
8.	Define the term phyllotaxy. Name various types of phyllotaxy.	2
9.	Which plant family represent the following floral formula. $\oplus P_{3+3} A_{3+3} G (3)$	1
10.	What is the name given to the cotyledon in monocot seed.	1
11.	Name the type of root for the following: i) Roots arising out of lower nodes and provide support to plant. ii) Pillar like roots developed from lateral branches provides mechanical support. iii) Roots that stores the food. iv) Roots come above the surface of the soil to absorb air.	2
12.	Write the scientific term for the following i) Leaf without a stipule. ii) Arrangement of leaves on node. iii) Mode of arrangement of sepals or petals in flower bud. iv) Arrangement of ovules on placenta.	2

13. Write difference between Hypogynous and epigynous ovary. Give an example for each. 2
14. What is inflorescence ?Write differences between Racemose and cymose inflorescence. 2
15. Define aestivation. Which type of aestivation is found in china rose, calotropis, gulmohur and pea. 3
16. Explain the different types of phyllotaxy? Give one example for each. 3
17. Draw diagram showing various types of placentation. 3
18. Differentiate between: 3
 - i)Apocarpous ovary and Syncarpous ovary
 - ii)Polyandrous stamen and synandrous stamen
 - iii)Actinimorphic flower and zygomorphic flower
19. Describe the modification in leaf. Give example for each. 3
20. Draw the diagrams representing various types of aestivation. 3
21. Give the distinguishing morphological features of gynoecium of family fabaceae, solanaceae and liliaceae. 5
22. Describe various root modifications. Give example for each. 5
23. Describe various stem modifications associated with food storage, climbing and protection. 5
24. Describe the floral characteristics of fabaceae and write the floral formula. 5